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EXAMINER

SHEVIN, MARK L

NOTICE OF ALLOWANCE AND FEE(S) DUE

66854

7500

04/07/2009

PAPER NUMBER

SHAY GLENN LLP 2755 CAMPUS DRIVE SUITE 210 SAN MATEO, CA 94403

1793

DATE MAILED: 04/07/2009

ART UNIT

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,413	07/31/2006	A. David Johnson	10265-722.201	8343

TITLE OF INVENTION: SINGLE CRYSTAL SHAPE MEMORY ALLOY DEVICES AND METHODS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	07/07/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 66854 7590 04/07/2009					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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SAN MATEO,	CA 94403							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/588,413	07/31/2006	-	A. David Johnson	ı		1	0265-722.201	8343
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nonprovisional	YES	\$755	\$300	_	\$ 0		\$1055	07/07/2009
EXAM		ART UNIT	CLASS-SUBCLASS					
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CFR 1.363). Change of corresp Address form PTO/S	ange of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Com	A TO BE PRINTED ON iffied below, no assignee pletion of this form is NO	data will appear on the	he pa g an a	ntent. If an assign assignment. and STATE OR C	COUNT	RY)	ocument has been filed for
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	up entity 🚨 Government
4a. The following fee(s) ☐ Issue Fee ☐ Publication Fee (N ☐ Advance Order -	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
5. Change in Entity Sta	,							
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interest as shown by the	records of the United Sta	uired) will not be accepted	ed from anyone other tr c Office.	ian tr	ie applicant; a regi	sterea	ittorney or agent; or th	e assignee or other party in
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66854 7590 04/07/2009			EXAMINER		
SHAY GLENN I	LLP	SHEVIN,	MARK L		
2755 CAMPUS DI	RIVE	ART UNIT	PAPER NUMBER		
SUITE 210 SAN MATEO, CA	. 94403		1793 DATE MAILED: 04/07/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 174 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 174 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/588,413	JOHNSON ET AL.	
Notice of Allowability	Examiner	Art Unit	
	MARK L. SHEVIN	1793	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet wing (OR REMAINS) CLOSED in or other appropriate communication is s	th the correspondence address this application. If not included unication will be mailed in due course. THIS	itive
1. This communication is responsive to <u>12/08/2008</u> .			
2. The allowed claim(s) is/are <u>16-27 and 50-54</u> .			
3. Acknowledgment is made of a claim for foreign priority u a) □ All b) □ Some* c) ☑ None of the: 1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. □ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 5. □ CORRECTED DRAWINGS (as "replacement sheets") must (a) □ including changes required by the Notice of Draftspers 1) □ hereto or 2) □ to Paper No./Mail Date	e been received. e been received in Application cuments have been received of this communication to file MENT of this application. hitted. Note the attached EXA es reason(s) why the oath or st be submitted. son's Patent Drawing Review	n No d in this national stage application from the a reply complying with the requirements AMINER'S AMENDMENT or NOTICE OF declaration is deficient.	
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1	s Amendment / Comment or	ne drawings in the front (not the back) of	
each sheet. Replacement sheet(s) should be labeled as such in the first of the sheet. Should be labeled as such in the first of the sheet. Should be labeled as such in the first of the sheet of the sheet of the sheet. Should be labeled as such in the sheet of the s	osit of BIOLOGICAL MATE	ERIAL must be submitted. Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date See Continuation Sheet 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No./ 7. ☐ Examiner's	formal Patent Application ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance -·	

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 09/11/2008 and 12/19/2008.

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Art Unit: 1793

DETAILED ACTION

Status of Claims

Claims 16-27 and 50-54, filed December 8th, 2008, are currently under 1.

examination. Compared to the claims filed October 25th, 2007 and examined in the

previous Office Action mailed August 8th, 2008:

Amended: Claims 16 and 20

New: Claims 50-54

Information Disclosure Statements

The information disclosure statements (IDS) submitted September 11th, 2008 and 2.

December 18th, 2008 are in compliance with the provisions of 37 CFR 1.97.

Accordingly, the information disclosure statements have been considered by the

examiner. Please refer to applicants' copies of the 1449 forms submitted herewith.

Priority

3. Applicants' claim to foreign priority of U.S. Application 11/041,185 is not valid as

one cannot claim a U.S. patent application as foreign priority. The earliest effective

filing date for the instant application is May 6th, 2004, which stems from the U.S.

provisional application 60/569,659.

Allowable Subject Matter

4. Claims 16-27 and 50-54 are allowed. Application/Control Number: 10/588,413 Page 3

Art Unit: 1793

Reasons for Allowance

5. The following is an examiner's statement of reasons for allowance:

The closest prior art of Yoichi, Recarte, and Kravetsky while teaching the

formation of single crystals of Cu-Al type material, do not teach the claimed

manufacturing method including pulling a column of the alloy so that the rising column is

cooled relative to the melt to form a crystallization front above the surface of the melt,

the Cu-Al seed being aligned on the <100> direction, or the claimed pulling length.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark L. Shevin whose telephone number is (571) 270-3588 and fax number is (571) 270-4588. The examiner can normally be reached on

Monday - Friday, 8:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy M. King can be reached on (571) 272-1244. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

/Mark L. Shevin/

Examiner, Art Unit 1793

March 26th, 2009 10-588,413

> /George Wyszomierski/ Primary Examiner Art Unit 1793